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ABSTRACT

We present a unified model to analyze three different buffered allocation strategies, first-in-first-out (FIFO), statically allocated fully connected (SAFC), and statically allocated multi-queue (SAMQ), and two flow control schemes, local flow control and global flow control, under bursty traffic patterns. We also conduct comparisons between the local and global flow control schemes and among these three buffer allocation strategies. It has shown that the network can improve its performance by applying the local flow control and using the multi-queue buffered allocation strategy.

INDEX TERMS

Keywords:
ATM networks, FIFO, asynchronous transfer mode, bursty traffic patterns, first-in-first-out, global flow control, local flow control, modeling, multi-queue buffered allocation, network performance, statically allocated fully connected, statically allocated multi-queue

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Modeling the buffer allocation strategies and flow control schemes in ATM networks

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Abstract

We present a unified model to analyze three different buffered allocation strategies, first-in-first-out (FIFO), statically allocated fully connected (SAFC), and statically allocated multi-queue (SAMQ), and two flow control schemes, local flow control and global flow control, under bursty traffic patterns. We also conduct comparisons between the local and global flow control schemes and among these three buffer allocation strategies. It has shown that the network can improve its performance by applying the local flow control and using the multi-queue buffered allocation strategy.

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Index Terms- asynchronous transfer mode; network performance; ATM networks; modeling; first-in-first-out; FIFO; statically allocated fully connected; statically

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06544652	4605928	150	10/24/1983	FAULT-TOLERANT ARRAY OF CROSS-POINT SWITCHING MATRICES	GEORGIOU, CHRISTOS

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